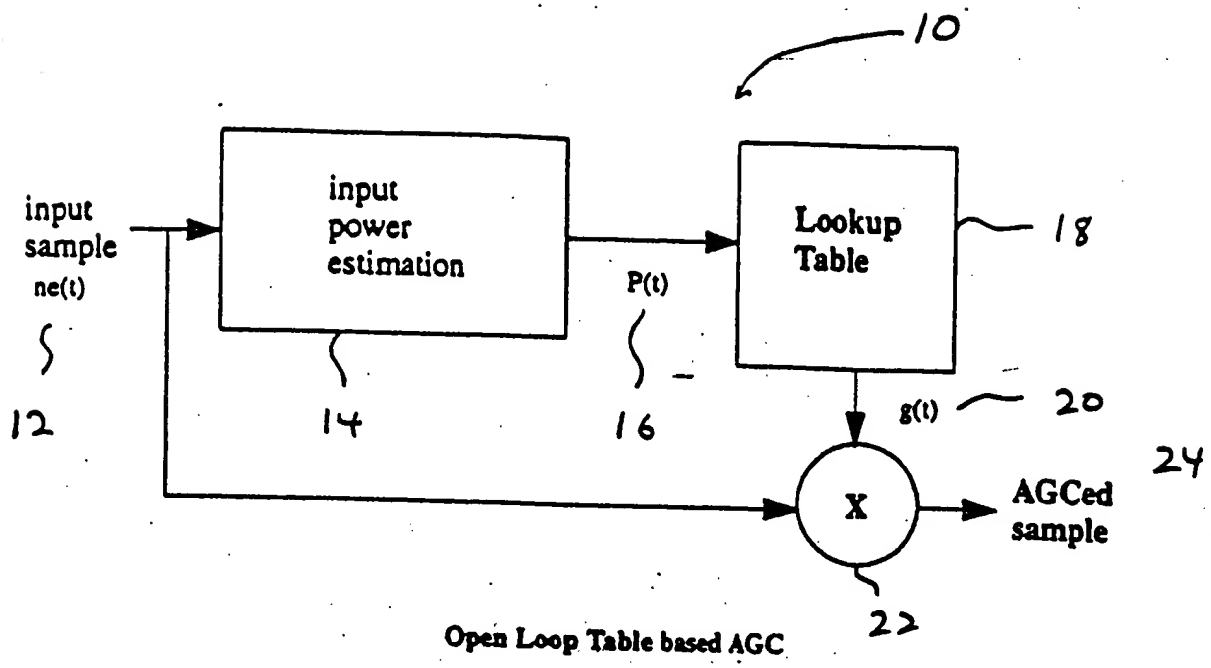
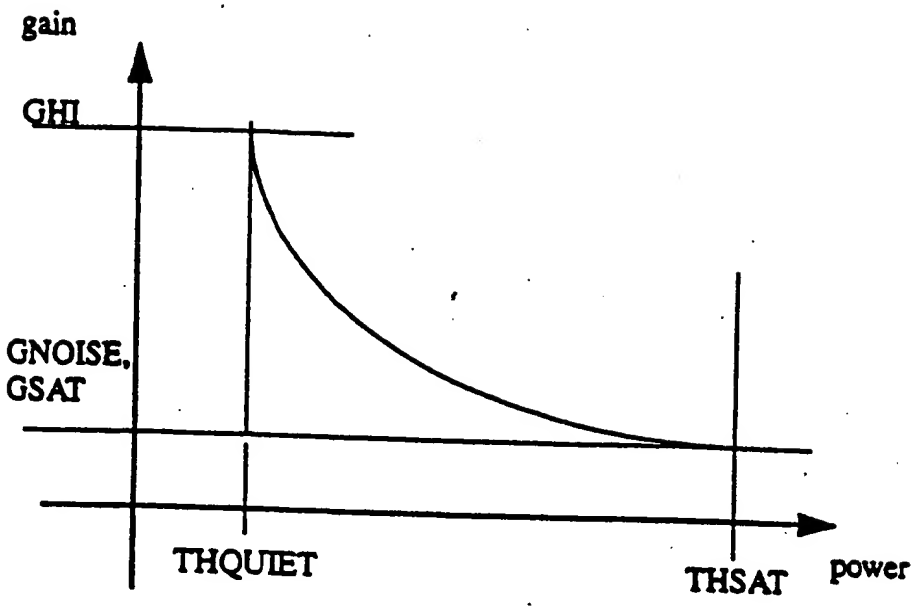


FIG 1.

EP 2 004 274 B1 20060208



Gain Table

FIG. 2

EP 0 742 620 A2

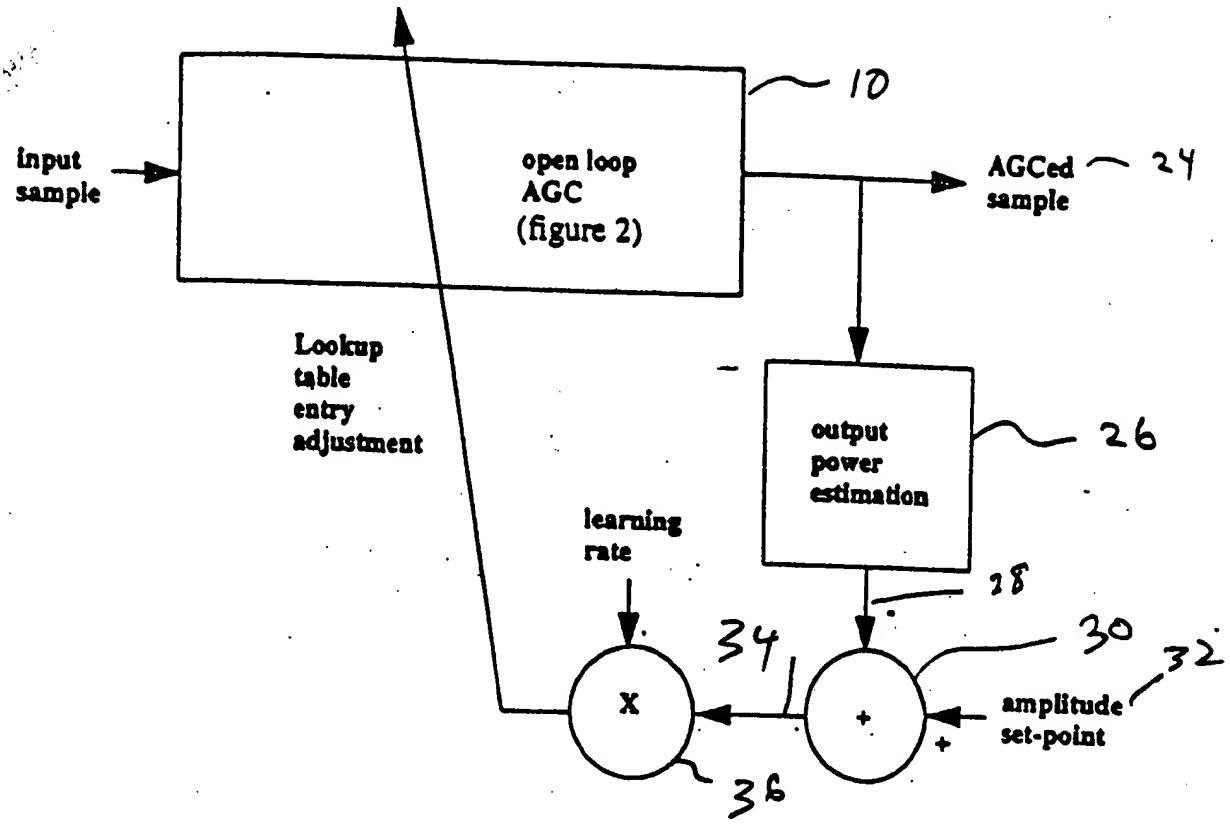

10
input sample
open loop AGC (figure 2)
AGCed sample
24
Lookup table entry adjustment
output power estimation
26
learning rate
28
34
30
32
X
+
amplitude set-point
+
36
Closed loop Table based AGC

FIG. 3

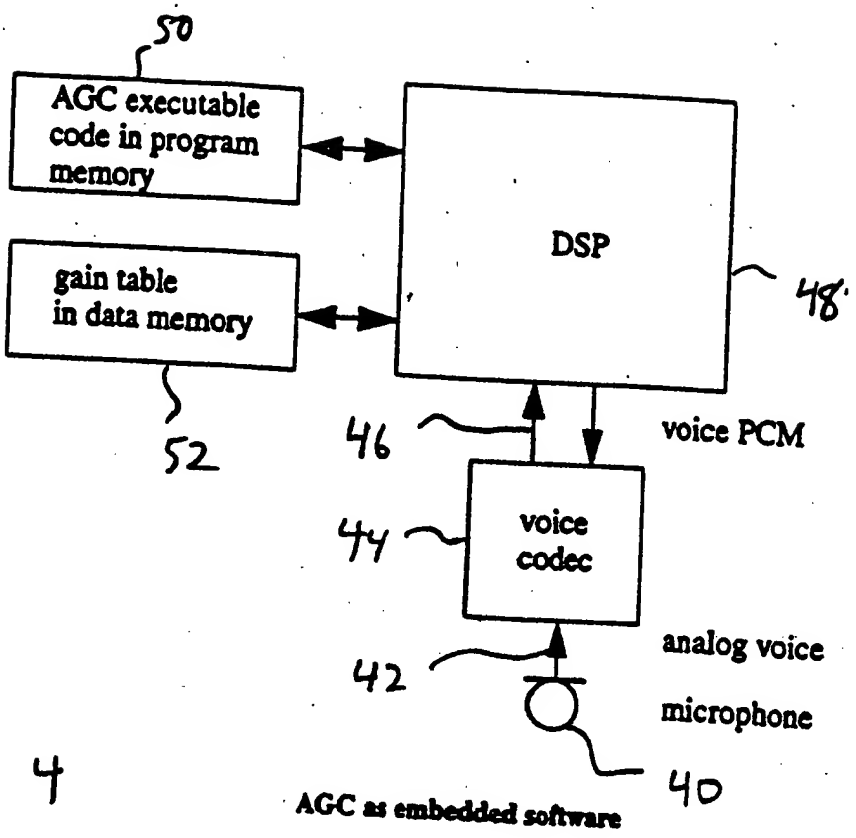


FIG. 4

EXPRESS MAIL NO. EL 929 694 934 US

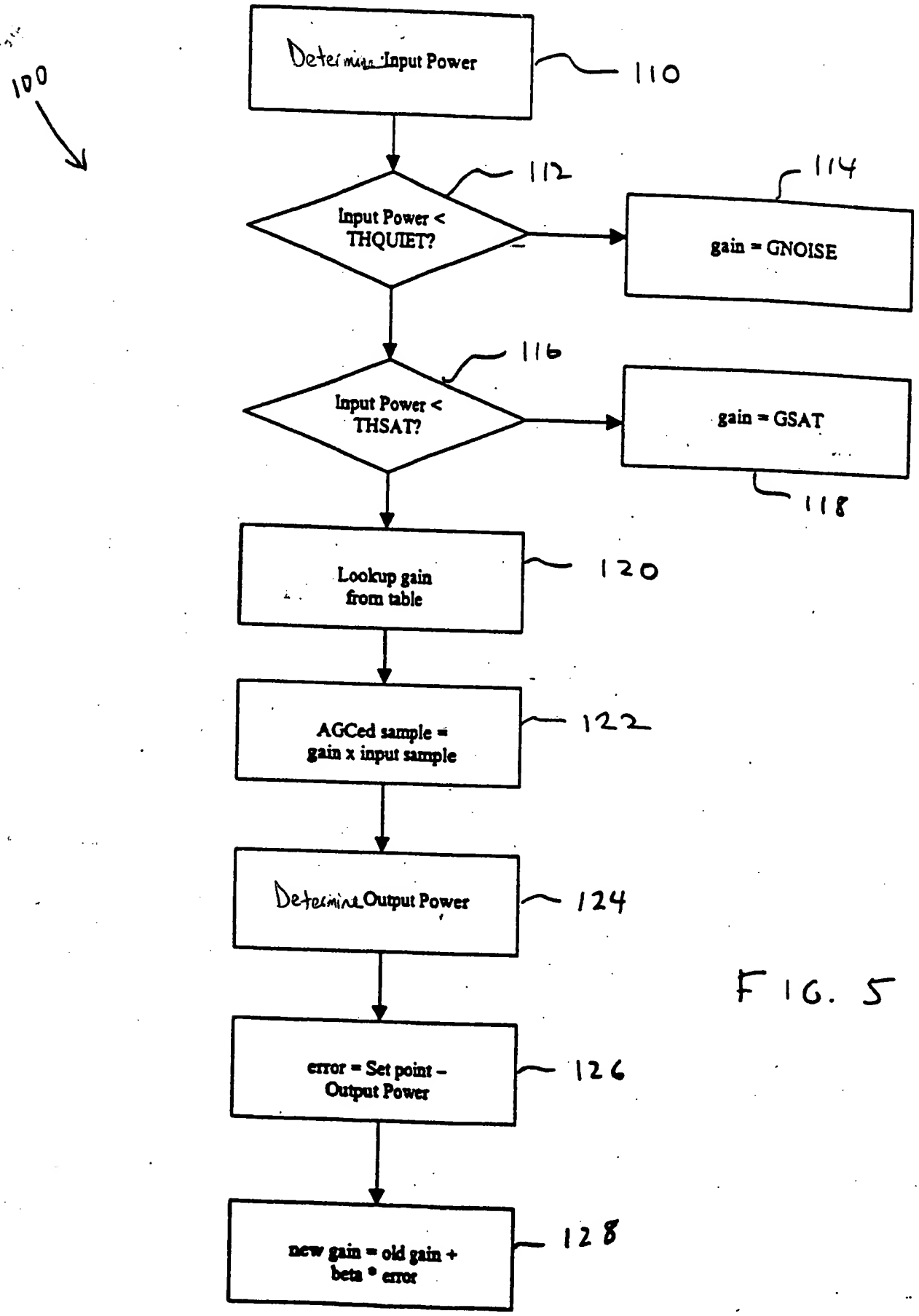

100
Determine Input Power
110
112
Input Power < THQUIET?
114
gain = GNOISE
116
Input Power < THSAT?
gain = GSAT
118
Lookup gain from table
120
AGCed sample = gain x input sample
122
Determine Output Power
124
error = Set point – Output Power
126
new gain = old gain + beta * error
128

FIG. 5

4,809,340

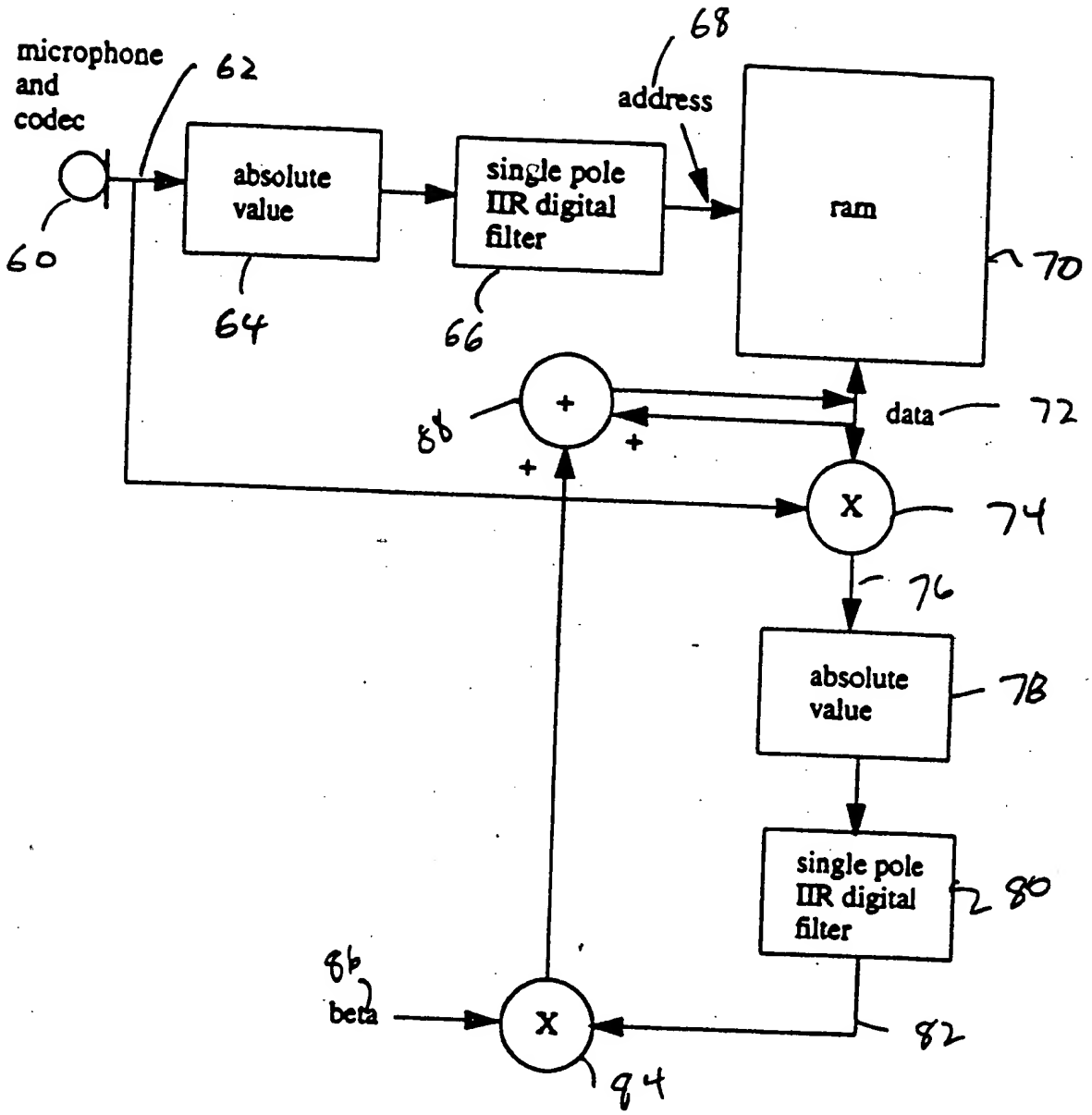


FIG 6

Before AGC

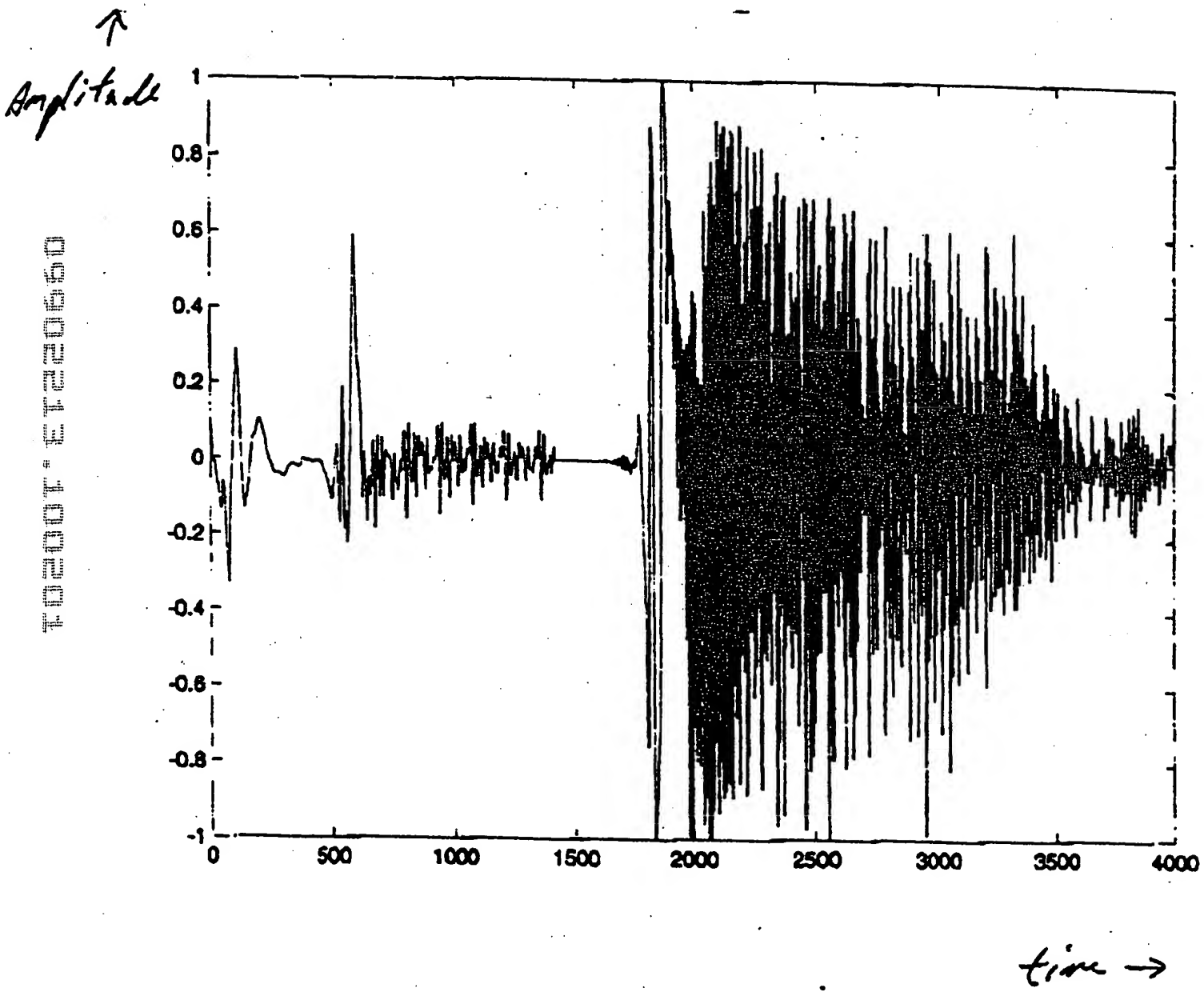


Figure 7

After AGC

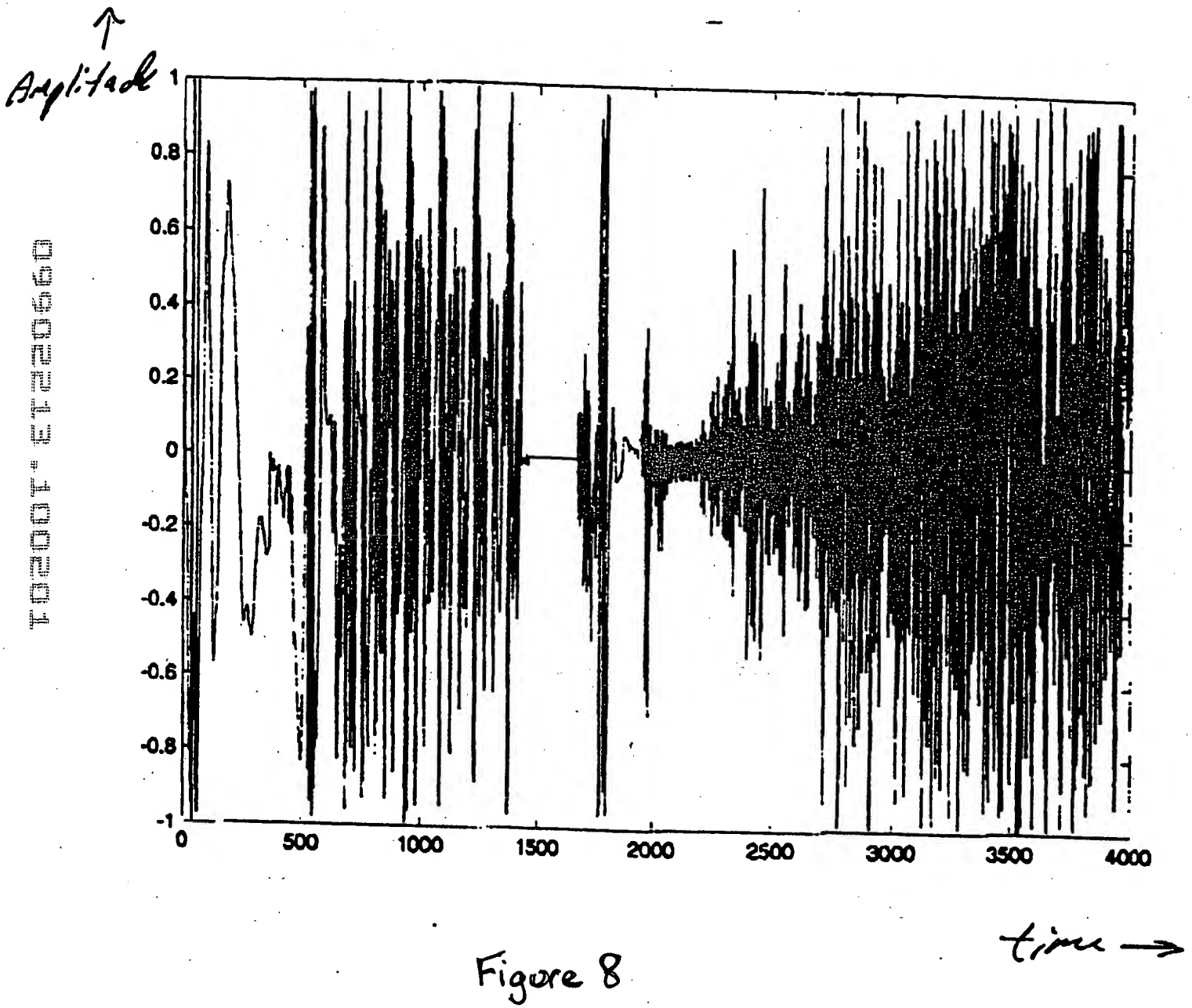


Figure 8